



PATENT  
TS0932 (US)  
CWS:EM

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Charles W. Stewart  
Charles W. Stewart  
Date: April 15, 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of )  
)  
EDWARD J. CREYGHTON and )  
CORNELIS OUWEHAND )  
)  
Serial No. 10/720,619 )  
)  
Filed November 24, 2003 )  
)  
HYDROCRACKING CATALYST )  
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Group Art Unit: 1764

COMMISSIONER FOR PATENTS  
P. O. Box 1450  
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.56 AND 1.97

It is respectfully requested that the documents listed on the attached Form PTO-1449 be considered by the Patent and Trademark Office in the above-entitled application and made of record therein. Full text copies of the relevant documents are enclosed.

The Examiner is requested to indicate consideration of this art on the attached PTO-1449 (Modified) by initialing next to each item submitted by the Applicant.

Respectfully submitted,

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FORM PTO-1449 (Modified)

ATTY. DOCKET NO.  
TS0932 (US)APPLICATION NUMBER  
10/720,619LIST OF INFORMATION PROVIDED  
BY APPLICANTAPPLICANT  
E. J. Creighton et al.

(Use several sheets if necessary)

FILING DATE  
November 24, 2003GROUP ART UNIT  
1764

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

| Initial | Document No. | Date | Patentee | Class | Subclass | Filing Date<br>If Appropriate |
|---------|--------------|------|----------|-------|----------|-------------------------------|
|         | AA           |      |          |       |          |                               |
|         | AB           |      |          |       |          |                               |
|         | AC           |      |          |       |          |                               |
|         | AD           |      |          |       |          |                               |
|         | AE           |      |          |       |          |                               |
|         | AF           |      |          |       |          |                               |
|         | AG           |      |          |       |          |                               |
|         | AH           |      |          |       |          |                               |

FOREIGN PATENT DOCUMENTS

|  |    | Document No. | Date    | Country | Class | Subclass | Translation |    |
|--|----|--------------|---------|---------|-------|----------|-------------|----|
|  |    |              |         |         |       |          | Yes         | No |
|  | AL | 0,421,422 A2 | 4/10/91 | Europe  | C01B  | 33/34    |             |    |
|  | AM |              |         |         |       |          |             |    |
|  | AN |              |         |         |       |          |             |    |

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

|    |   |
|----|---|
| AR | "Adsorption of Gases in Multimolecular Layers," by Stephen Brunauer, P. H. Emmett and Edward Teller, <i>J. Am. Chem. Soc.</i> , 60, 309 (1938) pp. 309-319  |
| AS | "Studies on Pore Systems in Catalysts I. The Adsorption of Nitrogen; Apparatus and Calculation," by B.C. Lippens, B.G. Linsen, and J.H. De Boer, <i>Journal of Catalysis</i> 3-32, (1964) pp. 32-37 |
| AT | "Estimation of the Zeolite Content of a Catalyst From Nitrogen Adsorption Isotherms," by Marvin F. L. Johnson, <i>Journal of Catalysis</i> 52, (1978) pp. 425-431                                   |
| AU | "Relationship Between Zeolite Framework Composition and Hydrocracking Catalyst Performance," by Richard Bezman, <i>Catalysis Today</i> , 13 (1992) pp. 143-156                                      |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

- The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- This is not a representation that a search has been made.